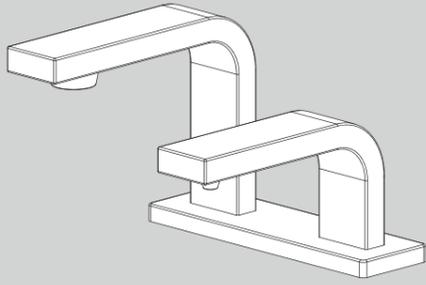


## INSTRUCTIONS FOR MODELS

SFC-9790



### NEED HELP?

For additional assistance or service please contact:

**SPEAKMAN®**

800-537-2107

customerservice@speakman.com

www.speakman.com

92-SFC-9790-01

## TOOLS AND SUPPLIES

Extended Phillips  
Screwdriver



Pencil



Scissors



Adjustable  
Wrench



Aerator  
Wrench  
(included)



### HELPFUL TOOLS & SUPPLIES:

Liquid  
Soap



Foam  
Soap



Safety  
Glasses



## IMPORTANT



- Do not over-tighten any connections or damage may occur.
- Be sure to read instructions thoroughly before beginning installation.
- This faucet has an operating range of 20-80 psi.

### SAFETY TIPS

Cover your drain to prevent loss of parts. Be sure to wear eye protection while cutting pipe.

### MAINTENANCE

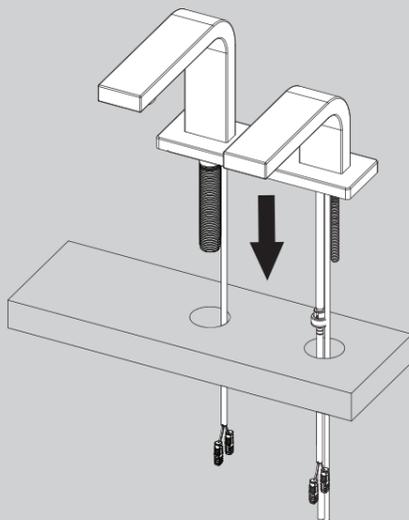
Your new Speakman Product is designed for years of trouble-free performance. Keep it looking new by cleaning it periodically with a soft cloth. The use of harsh chemicals and abrasives may damage the finish and void the product warranty. Please be sure to only use approved cleaners. Please contact Speakman for any clarification of acceptable cleaners.

### WARRANTY

Warranty information can be found at:  
www.speakman.com

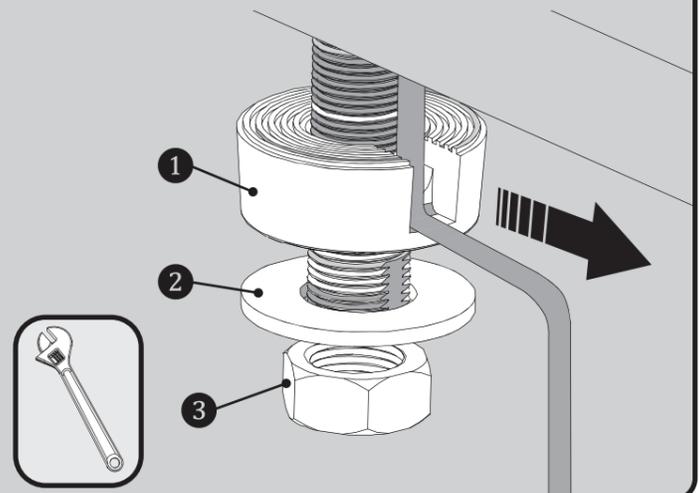
## FAUCET AND SOAP DISPENSER MOUNTING

- 1** Place all hoses, sensor wires and threaded shanks through the mounting holes one at a time. Take extra precautions to avoid pinching any wires. Lower Faucet and Sensor Soap Dispenser assembly into position.



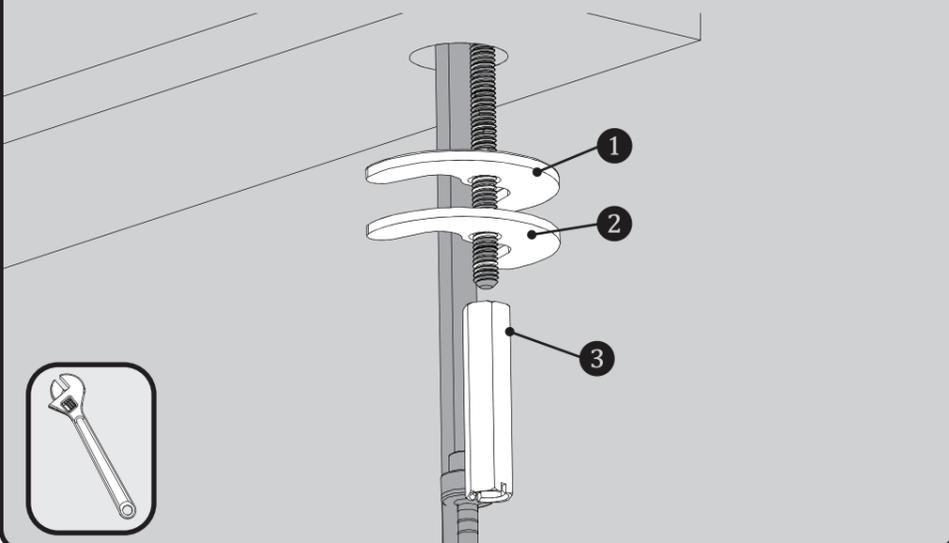
## FAUCET MOUNTING

- 2** From beneath, install Rubber Wire Guard (1) over the Shank and pass the Sensor Wires through the Notch to prevent pinching of wires. The Notch should be facing right. Install Metal Washer (2) and Mounting Nut (3) onto Shank. Wrench tighten Mounting Nut (3). Verify that Sensor Wire is not pinched.



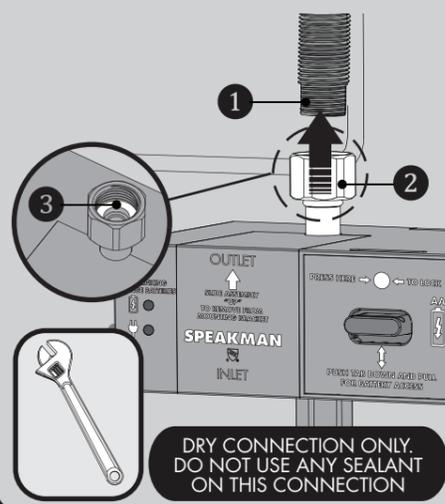
## SOAP DISPENSER MOUNTING

- 3** From beneath, install the Rubber Washer (1), Metal Washer (2) and Mounting Nut (3) to secure the Sensor Soap Dispenser. Wrench tighten Mounting Nut (3). Verify that the wires and hoses are not pinched.

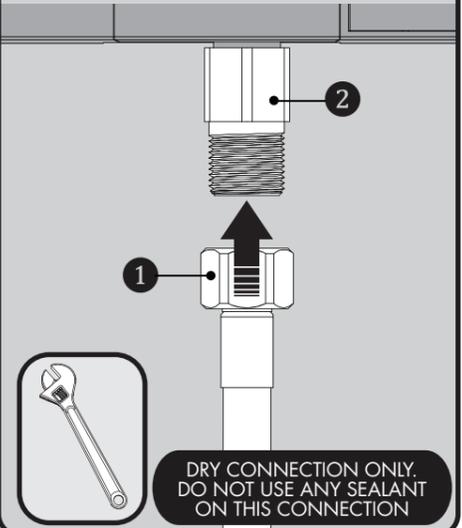


## FAUCET SOLENOID BOX INSTALLATION

- 4** Thread the Solenoid Outlet (2) directly onto The Shank (1) by hand. Verify that the Rubber Washer (3) is fully seated inside the swivel nut. Wrench tighten the connection.

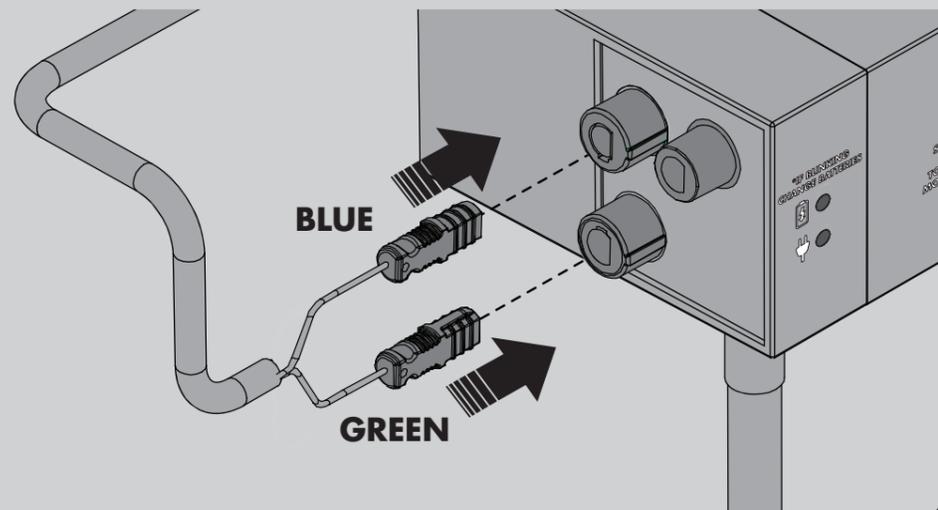


- 5** Assemble "INLET" Supply Hose (1) (not supplied), to the "INLET" connection (2) of Solenoid. Wrench tighten.



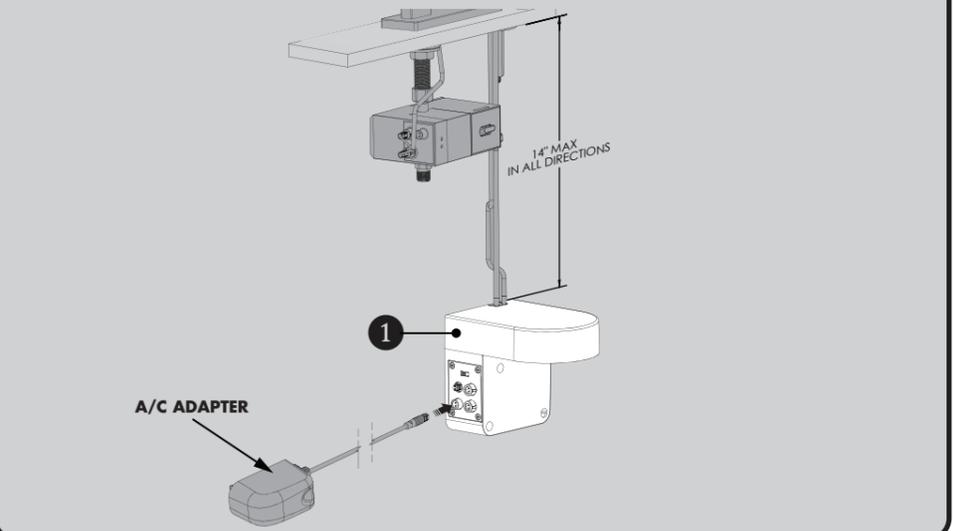
## FAUCET SENSOR CONNECTIONS

- 6** Make electrical connections from the Sensor Eye to the Solenoid Assembly. Connect the Blue Male Ended Wire to the Blue Female Connection. Connect the Green Male Ended Wire to the Green Female Connection. To further aid proper alignment, there are white alignment lines on the connector ends. These alignment lines should face forward when properly installed.



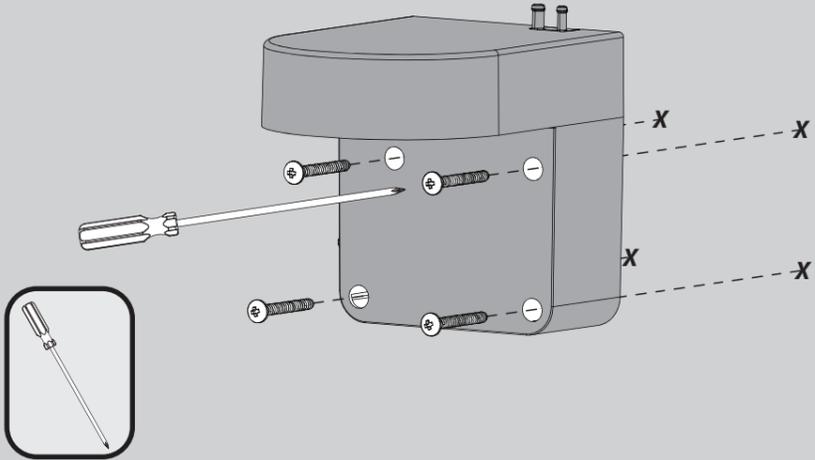
## SOAP DISPENSER CONTROL BOX MOUNTING

- 7** Place the Control Box (1) against the desired mounting surface while ensuring adequate clearance for servicing of all connections. If using the A/C Adapter, consider the distance to the nearest electrical outlet. Control Box should be mounted so the Soap and Air Outlet Ports are facing up.

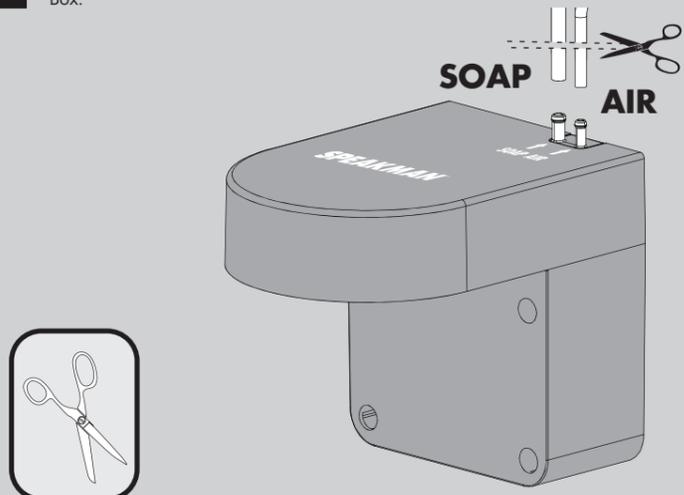


## SOAP DISPENSER MOUNTING

**8** Mark Screw Hole mounting locations (X4) using a Mounting Screw (included) and an extended Phillips Screw Driver. Mount the Control Box onto the previously marked locations. If mounting on drywall and not to stud, use the appropriate anchors and fasteners for application. Recommend screw in EZ anchor or equal for drywall.



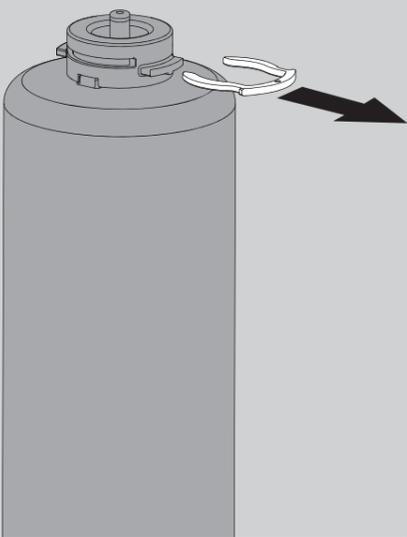
**9** Align the SOAP and AIR tubes to the Control Box. Cut to length and press tubing over barbed fittings on Control Box.



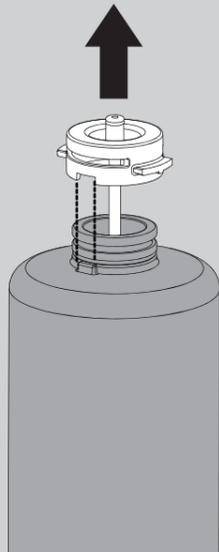
**WARNING:** Running excessive tubing may lead to decrease in performance. Always keep tube length to minimum.

## FILL/REFILLING SOAP

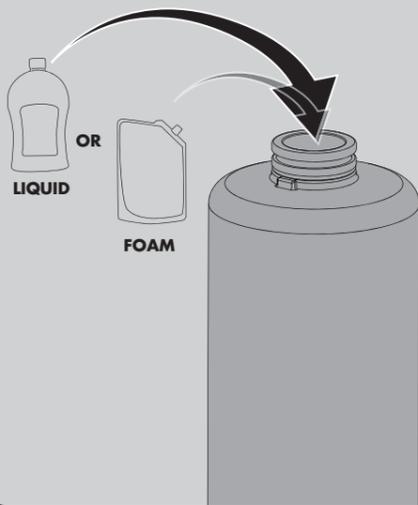
**10** Open the Soap Bottle Lid by pulling the C Clip away.



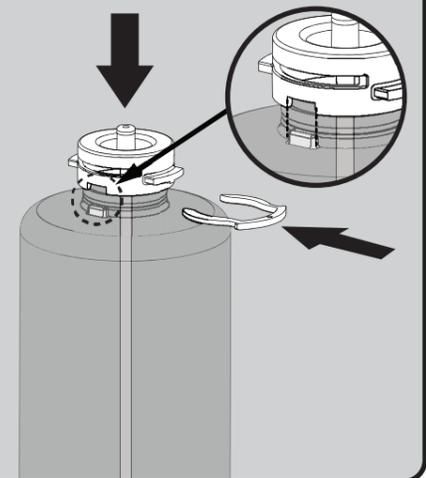
**11** Lift the Cap to access soap bottle.



**12** Pour Soap into the Soap Container. This Soap Dispenser will work with both Liquid Hand Soap and Foaming Hand Soap with a viscosity of < 1000cP.

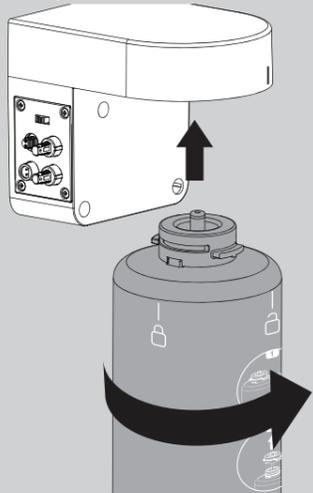


**13** • After filling the soap bottle, align the cutout of the cap and close the bottle cap. Make sure the feed tube reaches all the way to the bottom of the bottle.  
• Secure the Cap with the C Clip.

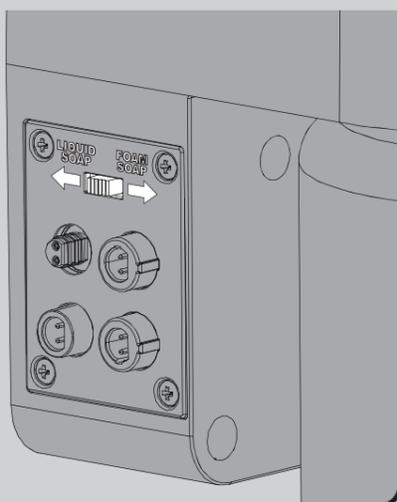


## FILL/REFILLING SOAP

**14** Align the UNLOCK Symbol of the Soap Bottle to the Vertical Line on the Control Box. Press upwards for engagement and rotate clockwise until the LOCK symbol of the Soap Bottle is aligned to the vertical line on the Control Box.

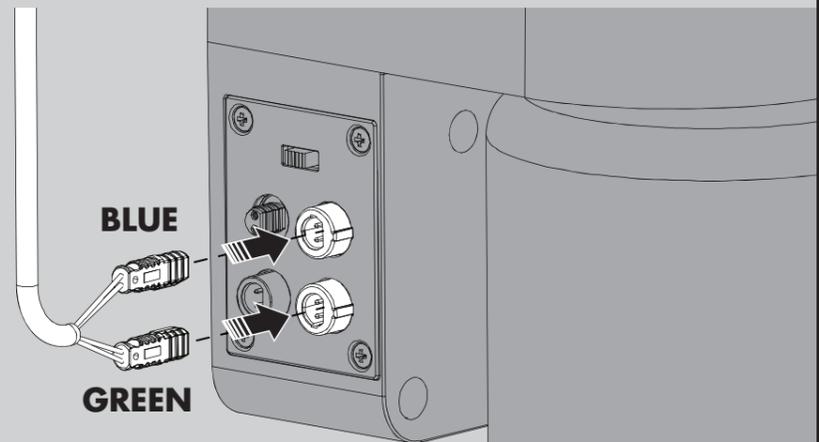


**15** Select the proper Mode of the Sensor Soap Dispenser based on the soap filled. The Mode Switch button is located on the left side of the Control Box.



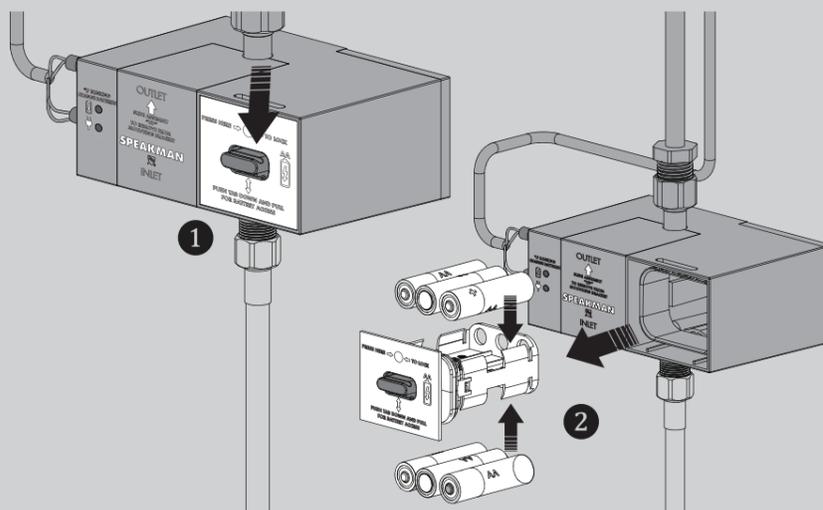
## SOAP DISPENSER SENSOR CONNECTIONS

Make electrical connections from the Sensor Eye to the Control Box. Connect the Blue Male Ended Wire to the Blue Female Connection. Connect the Green Male Ended Wire to the Green Female Connection. To further aid proper alignment, there are white alignment lines on the connector ends. These alignment lines should face forward when properly installed.

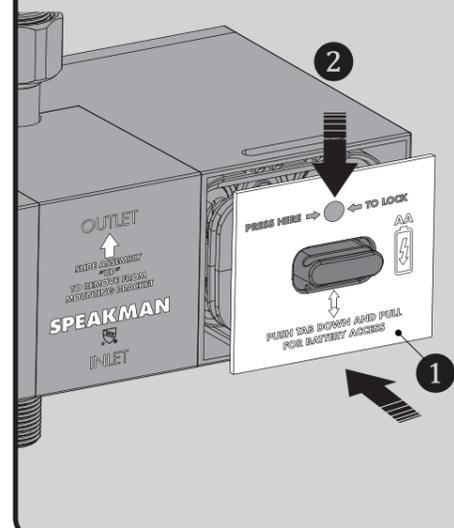


## FAUCET BATTERY POWER

**17** Access the interior Battery Enclosure by pressing down on the tab to release the tray holding the batteries (1). Pull out Battery Tray (2). Insert or replace the batteries with six (6) new standard 1.5v AA batteries. Ensure the position of the new batteries are aligned to the plus (+) and minus (-) symbols within the battery holder.



**18** Reinstall the Battery Tray (1). Make sure to press the indicated location until the battery door is fully seated and locks into position (2).

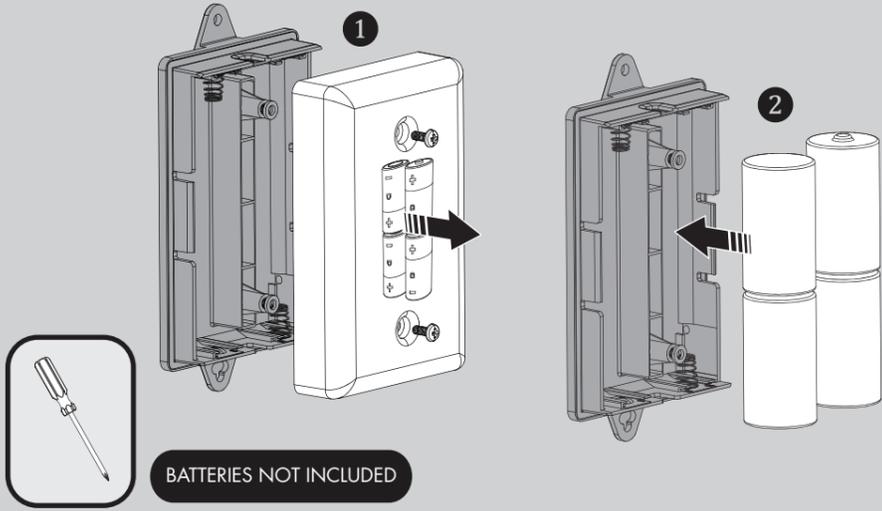


If using  
Battery Power  
please continue to  
**STEP 17.**  
If using  
AC power,  
please skip to  
**STEP 21.**

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**SOAP DISPENSER BATTERY POWER**

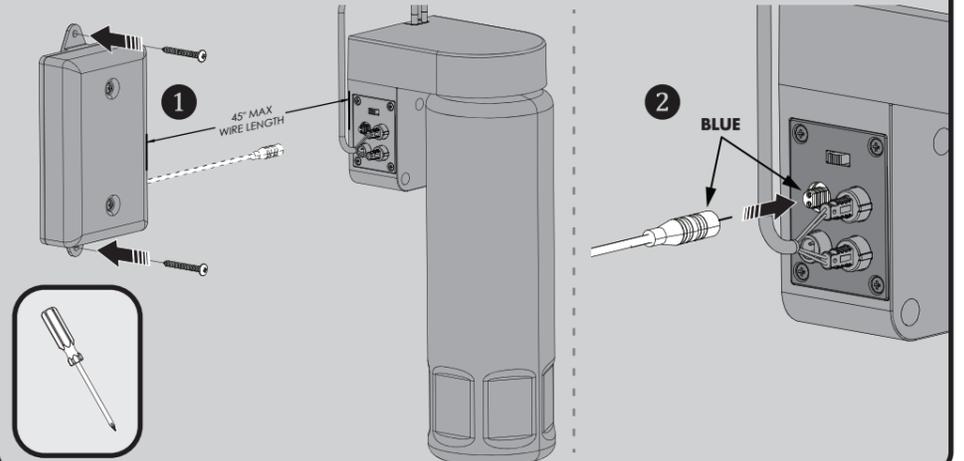
- Access the interior Battery Enclosure by unscrewing the two (X2) Screws using a Phillips Screwdriver (1).
- Insert or replace the batteries with four (X4) new standard 1.5v D size batteries. Ensure the position of the new batteries are aligned to the plus (+) and minus (-) symbols within the battery holder (2).



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**SOAP DISPENSER BATTERY POWER**

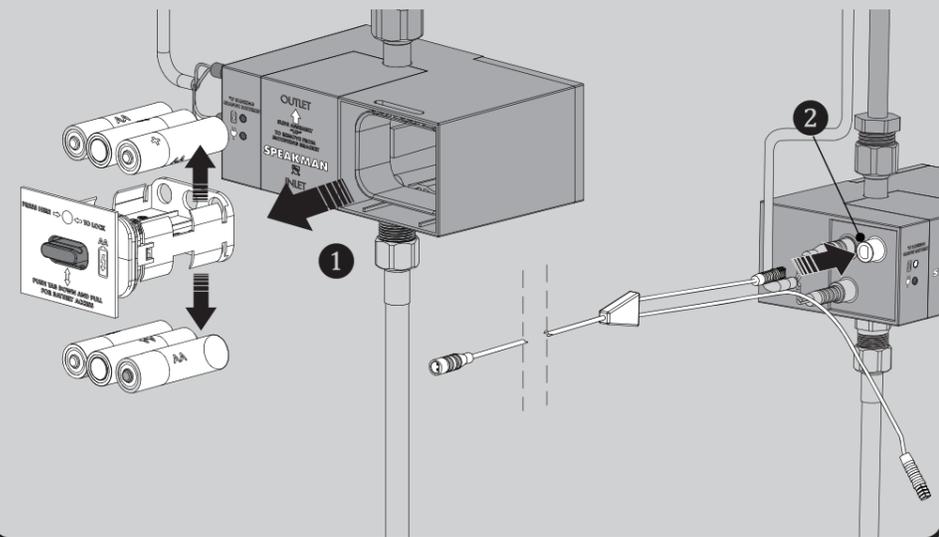
- Close the Battery Box by tightening the two (X2) Philips screws. Determine the desired location of the Battery Box, make sure the Connecting Wire is long enough to reach the Control Box. Mount the Control Box onto the previously marked location using a Phillips Screwdriver and two (X2) Mounting screws (included) (1). If mounting on drywall and not to stud, use the appropriate anchors and fasteners for application. Recommend screw in EZ anchor or equal for drywall.
- Connect the Blue Battery Connector to the Blue Male Connector on the side of the Control Box (2).



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**FAUCET A/C POWER**

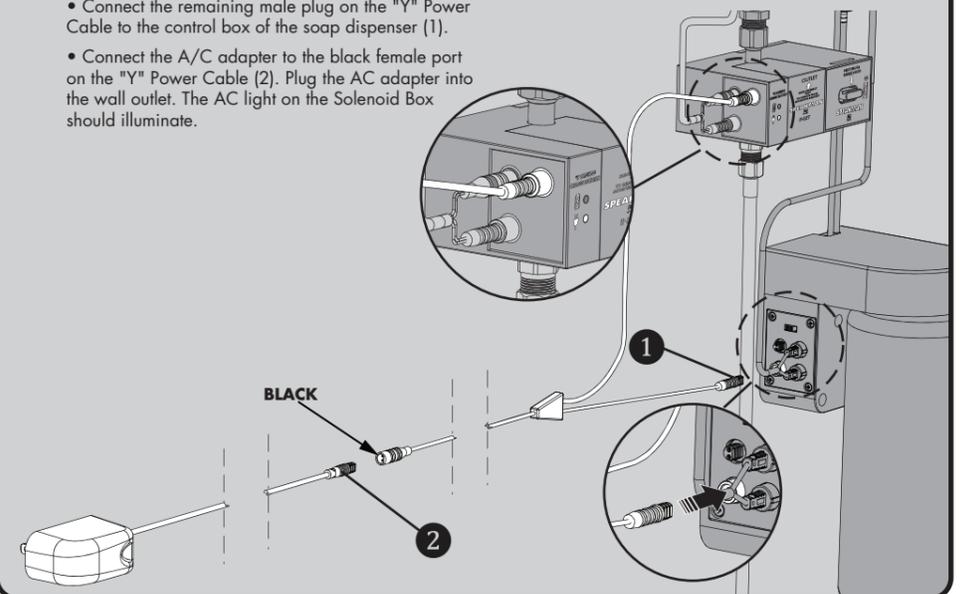
- Verify that no batteries are present within the battery enclosure (1).
- Connect one male end of the "Y" Power Cable to the Solenoid Box (2).



22

**SOAP DISPENSER A/C POWER**

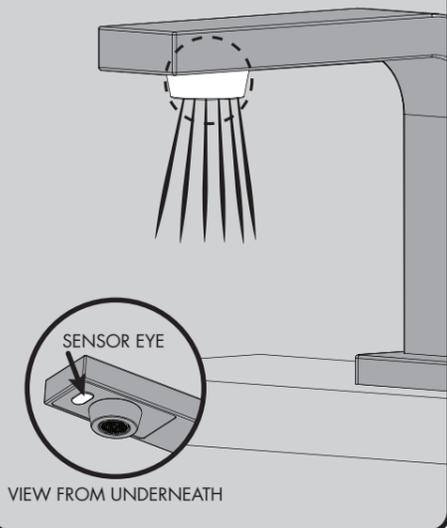
- Connect the remaining male plug on the "Y" Power Cable to the control box of the soap dispenser (1).
- Connect the A/C adapter to the black female port on the "Y" Power Cable (2). Plug the AC adapter into the wall outlet. The AC light on the Solenoid Box should illuminate.



23

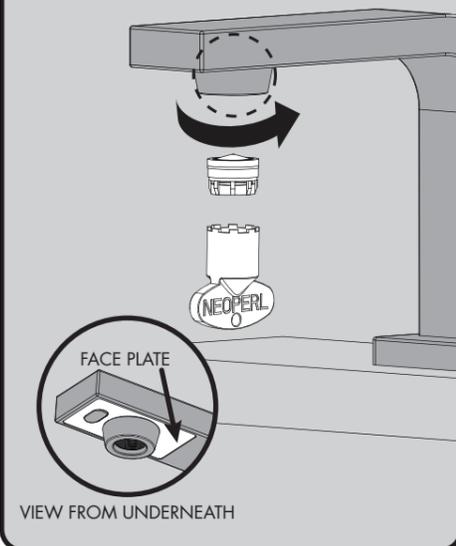
**FAUCET AERATOR INSTALL**

- Turn on water supplies. Activate faucet by waving your hand across the Sensor Eye to flush the water for 1 minute.



24

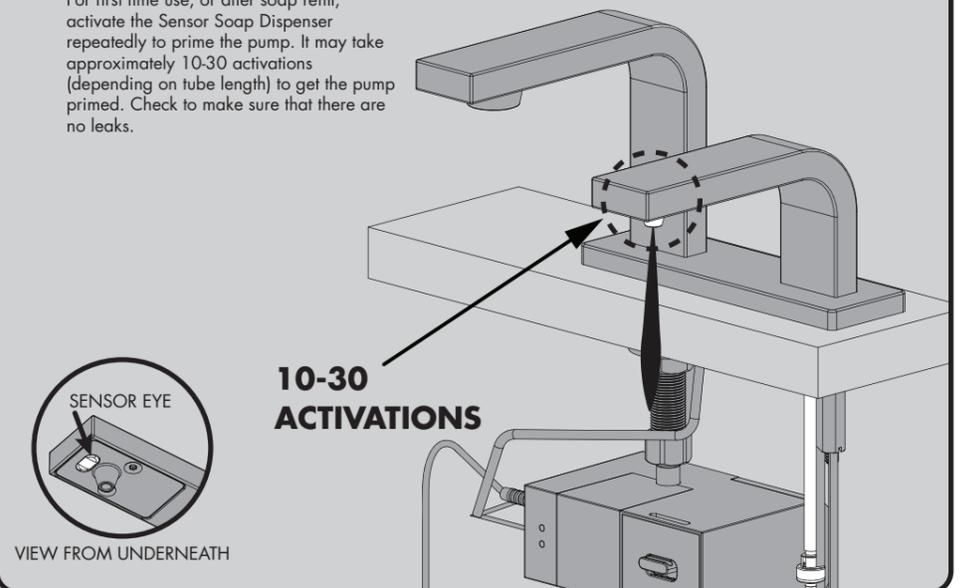
- Install Aerator. Make sure the Face Plate is fully seated in. Tighten with included Aerator Wrench.



25

**PRIMING THE SOAP DISPENSER**

- For first time use, or after soap refill, activate the Sensor Soap Dispenser repeatedly to prime the pump. It may take approximately 10-30 activations (depending on tube length) to get the pump primed. Check to make sure that there are no leaks.



## SFC-9790 CARE AND CLEANING

- 1) Your SENSORFLO® Faucet is designed and engineered in accordance with the highest quality and performance standards. With proper care, it will provide years of hygienic and trouble-free service.
- 2) Periodically, the product will require some minor maintenance to keep it at peak performance. There is a low battery indicator located on the Sensor on the body. When the low battery light on the Sensor blinks, it indicates that the battery is low. To replace the batteries, follow the installation instructions in the electrical connections section of this document.
- 3) Periodically clean the In-Line Filter.
- 4) The polished chrome finish of your Faucet should be cleaned using mild soap and warm water.
- 5) Dry immediately with a soft, clean cloth for best results.
- 6) NEVER use abrasive cleaners, chemicals, alcohol or other solvents. They may damage the surfaces of the non-chrome plated finishes.

## SFC-9790 TROUBLESHOOTING

### **SENSOR FAUCET:**

#### **If water flow from the Faucet decreases:**

- 1) Make sure the supply stops are open.
- 2) Remove the Aerator from the spout using the outlet wrench. Operate the Faucet with outlet device removed. If water flow is acceptable, disassemble the outlet device and rinse components with clean water.

#### **If no water flows from the Faucet, and**

*If you can hear a clicking sound of Solenoid opening, but no water flows:*

- 1) Verify that the HOT and COLD wall stops are completely open.
- 2) If the Battery Light within the Sensor Eye blinks continuously, even when the Faucet is not in use, the batteries within the Solenoid have low voltage and need replacement.

*If you **do not** hear a clicking sound of Solenoid opening and no water flows:*

- 1) If the Battery Light within the Sensor Eye blinks continuously, even when the Faucet is not in use, the batteries within the Solenoid have low voltage and need replacement.
- 2) Unplug connections to Solenoid for 2 minutes. Plug connections back in. The red light on the Sensor should turn on for several seconds before becoming operational. If not, check power supplies and connections.
- 3) Disconnect the existing Solenoid Assembly and connect a new Solenoid Assembly. Activate the Sensor and check for water flow. If the water flows, the existing Solenoid Assembly should be replaced.

*If the batteries have been replaced, but the Faucet still does not operate:*

- 1) Check the battery polarity and electrical connections. Make sure all electrical connections are fully inserted.
- 2) If the Faucet does not operate, replace the existing Solenoid Assembly with one you know to be functioning.

#### **If the Faucet activates, but the water will not shut off:**

- 1) Hold a hand in front of the Sensor at up to 7" away for more than 1 minute until the water flow stops. Once the water stops, remove your hand and wait 15 seconds. Then place your hand in front of the Sensor and verify that it is operating properly.
- 2) If the Faucet still does not shut off, cover the front of the sink with a towel. This will eliminate the potential of reflections activating the Sensor.
- 3) If it is a new installation and still not working, replace the Solenoid Assembly.

### **SENSOR SOAP DISPENSER:**

#### **If your sensor soap dispenser has reduced performance:**

- 1) Check to see if the soap bottle needs refilling.
- 2) Check to see if the soap feed tube in the soap bottle is pulling from the bottom of the bottle.
- 3) Check to see if any tube is clogged or bent. If it is clogged, clean all tubes with water.
- 4) If the bottle is refilled and issue continues, check the viscosity of the soap. This soap dispenser is only compatible with soap that has less than 1000cP viscosity.
- 5) If high viscosity soap use is desired, mix the soap with warm water to reduce viscosity.

#### **If your sensor soap dispenser has completely stopped working:**

- 1) Check to see if the soap bottle needs refilling.
- 2) Check to see if the soap bottle is correctly installed.
- 3) If battery power is used, replace batteries with new ones and try to reactivate the sensor soap dispenser.
- 4) Check to see if there is anything blocking the sensor. If there is then remove the item and reactivate the sensor soap dispenser after 15s.
- 5) If the above steps do not solve the problem, replace the control box with a new one.

## SFC-9790 QUESTIONS & ANSWERS

### **Q. How does the Sensorflo® work?**

**A.** It uses laser technology. The Sensor emits a non-visible beam of light. When an object enters the detection area, the Sensor signals the Solenoid Valve to open for water to flow. When an object leaves the detection area, the Sensor signals the valve to close.

### **Q. Is the Sensorflo® sensor beam adjustable?**

**A.** No, the Sensorflo® sensor beam is not adjustable. It has been factory set to factory specifications for these items.

### **Q. What about water conservation?**

**A.** The Sensorflo® design directly addresses water conservation. Water savings of up to 65% are not unusual. Additional energy savings are realized by conserving hot water.

### **Q. Can the water temperature of the Sensorflo® Faucet be adjusted?**

**A.** Yes, this Faucet can be retrofitted with an under the counter Thermostatic Mixing Valve. If you need to meet ASSE 1070, you must use our TMV (Thermostatic Mixing Valve) option.

### **Q. Does Sensorflo® reduce maintenance?**

**A.** By elimination of on/off handles, control components are reduced and fittings stay cleaner longer. Only a light rinsing and wiping is required to restore the beauty of the Sensorflo® Faucets. Drip stains are eliminated. Fingerprints and soap spots on sinks and fittings are avoided. Finishes last longer and wash areas stay cleaner. Germs and bacteria are not transferred as easily making for a healthier environment.

### **Q. The chrome finish on my items seems to be deteriorating. What can I do to prevent this from happening?**

**A.** Many commercial cleaning products contain harsh chemicals and abrasives. These products should not be used on any chrome-plated plumbing products. Please use only mild soap and water to clean the Faucet. Dry immediately with a soft cloth.

### **Q. Does the Sensorflo® system shut off immediately when an object leaves the sensing area?**

**A.** A very short delay of approximately 0 to 1.5 seconds occurs before water is shut off.

### **Q. Are my Sensorflo® products protected from power surges?**

**A.** Yes, Sensorflo® has been designed to have built-in power surge protection.

### **Q. If we lose power, are any actions needed to reset my Sensorflo® products?**

**A.** After a power outage, the Sensorflo® system is automatically ready for operation as soon as the power comes back on.

### **Q. If I call a plumber to come and install this system, will they know enough to hook it up?**

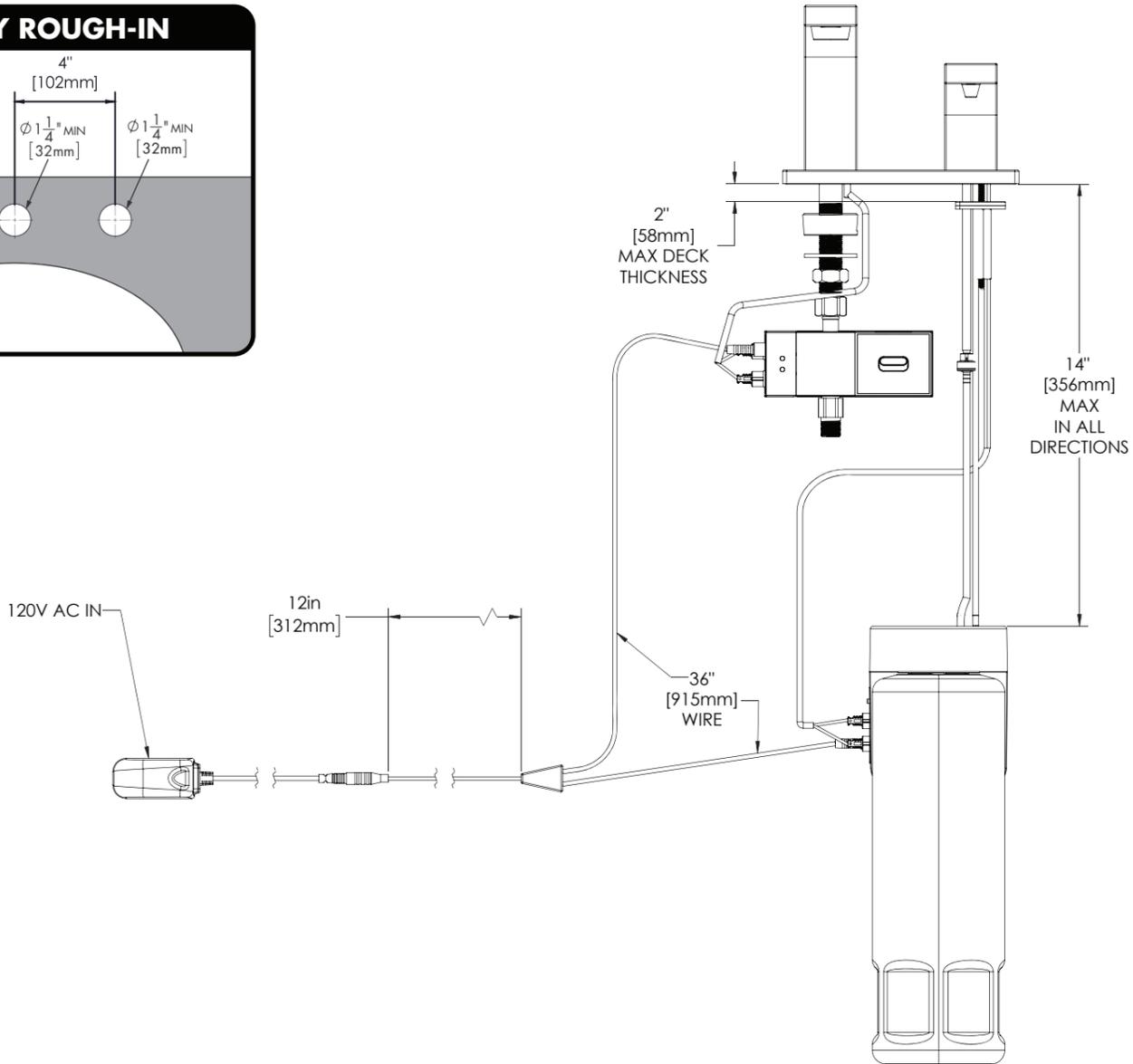
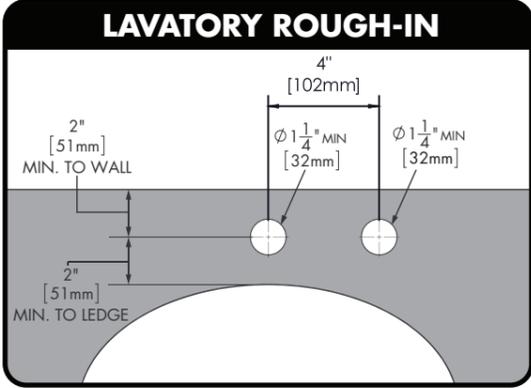
**A.** Our installation diagrams are very easy to follow.

### **Q. What kind of soap can I use on the Sensor Soap Dispenser?**

**A.** The Sensorflo® Soap Dispenser is designed to work with any hand soap that has a viscosity of < 1000cP.

### **Q. Do I have to use the foaming hand soap?**

**A.** No. You can use either foaming hand soap or liquid hand soap. Just make sure you select the correct mode on the control box.



ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SPECIFIED. DIMENSIONS SUBJECT TO CHANGE WITHOUT NOTICE.

SFC-9790 ROUGH-IN DIAGRAM

NOTES:

COMPLIANCE:

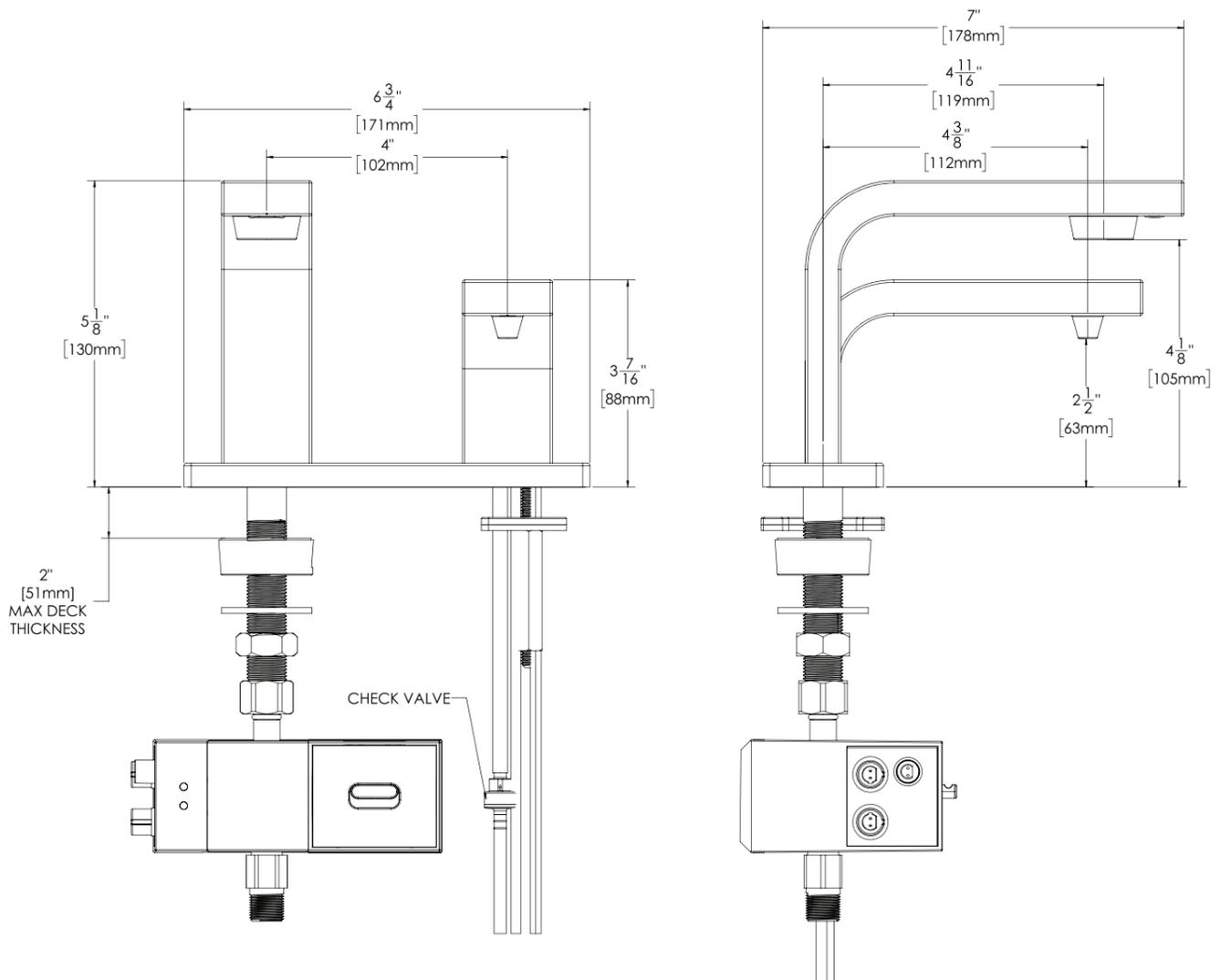
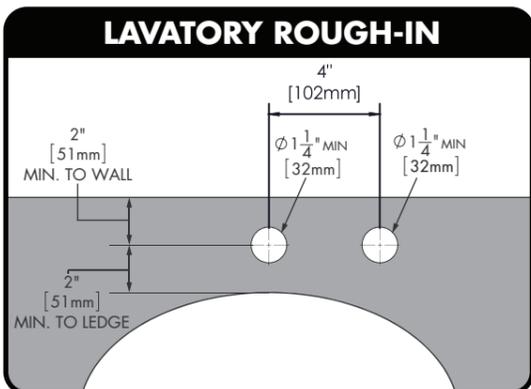
ASME A112.18.1/CSA B 125.1

FLOW DATA:

- 0.5gpm (1.9 L/min)

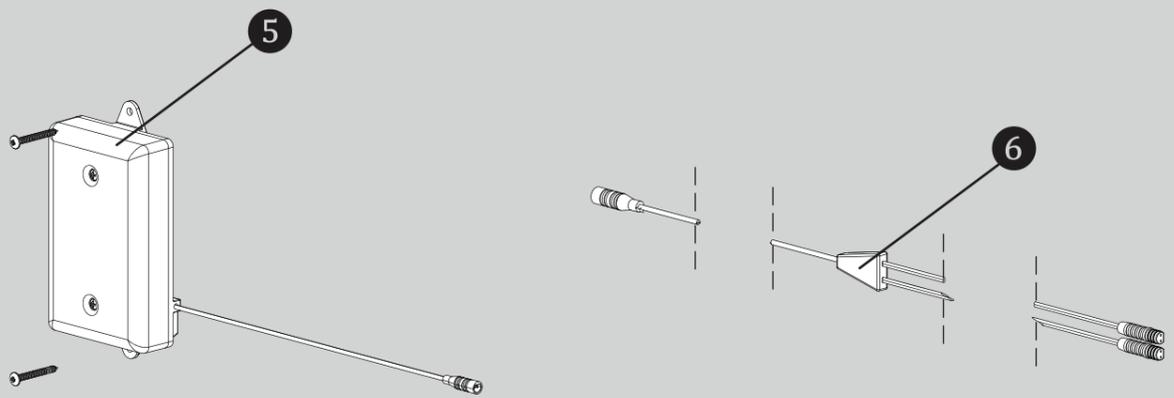
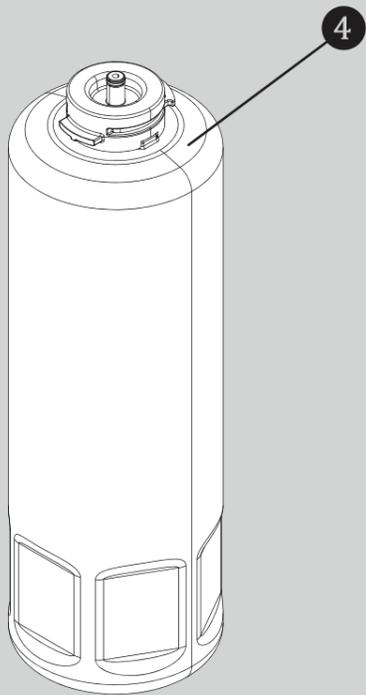
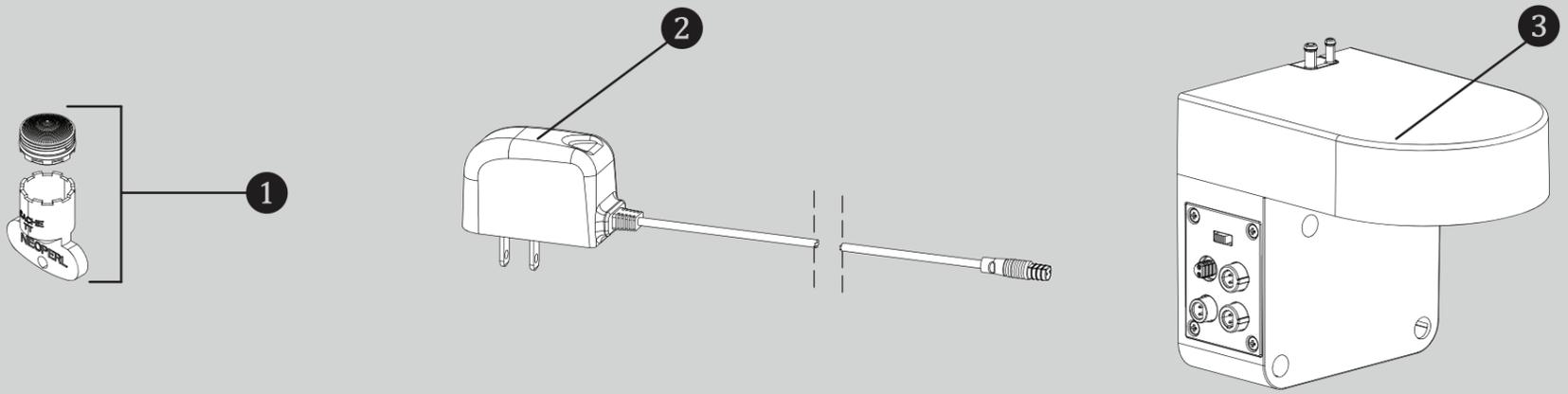
CONNECTIONS:

Supply Connection:  
9/16"-24 UNF Connection



ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SPECIFIED. DIMENSIONS SUBJECT TO CHANGE WITHOUT NOTICE.

**SFC-9790 REPAIR PARTS**



ITEM NO.	PART NO.	DESCRIPTION
1	RPG05-113309	0.5 GPM M16.5 AERATOR REPAIR KIT
2	RPG76-107259	A/C CONVERSION KIT (120VAC TO 6VDC)
3	RPG76-112965	SENSOR SOAP DISPENSER CONTROL BOX
4	RPG05-112419	SOAP BOTTLE
5	RPG76-112420	4 X D SIZE BATTERY BOX
6	76-112988	SENSOR AC POWER SPLIT CABLE